Homeowner Engagement

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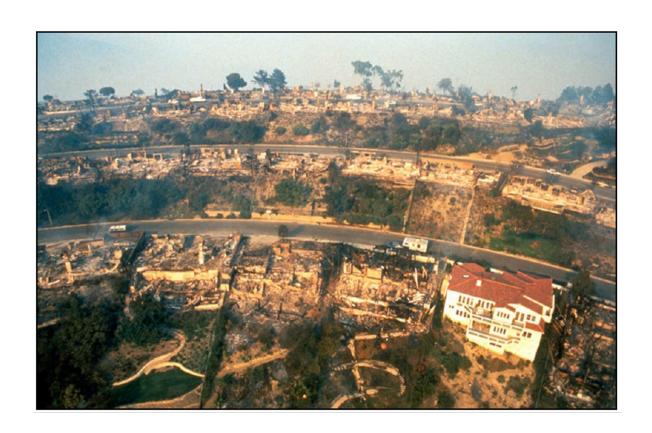
Wildland Urban Interface

Wildland Urban Interface (WUI) is the area where structures and other human development meet or intermingle with undeveloped wildland, forest or vegetative fuels.



Homes can withstand

When a house survives a forest fire virtually undamaged, that is often portrayed as a "miracle," but in fact it's almost always a direct result of the house's construction and its immediate surroundings, Cohen said. "The key to reducing WUI home fire losses is to **reduce home ignitability**," he wrote.





Ignition-Resistant Homes



A screenshot of a demonstration video by the Insurance Institute for Business and Home Safety shows the effects of embers on a traditionally-built home compared to one designed for fire resistance, 2019.

Insurance Institute for Business and Home Safety Research Center Ember Storm Test Highlights The majority of homes lost to wildfire are first ignited by embers and small flames. By reducing the susceptibility of the home and the area immediately around the home (also called the "home ignition zone"), the chances of a home surviving a wildfire are greatly increased.



Home Ignition Zone

The home and the area 0-5' from the furthest attached exterior point of the home; defined as a non-combustible area. Science tells us this is the most important zone to take immediate action on as it is the most vulnerable to embers. **START WITH THE HOUSE ITSELF** then move into the landscaping section of the Immediate Zone.





In the Immediate Zone (0-5 feet)

- Clean roofs and gutters of dead leaves, debris and pine needles that could catch embers.
- Replace or repair any loose or missing shingles or roof tiles to prevent ember penetration.
- Reduce embers that could pass through vents in the eaves by installing
 1/8- inch metal mesh screening.
- Clean debris from exterior attic vents and install 1/8-inch metal mesh screening to reduce embers.
- Repair or replace damaged or loose window screens and any broken windows
- Screen or box-in areas below patios and decks with wire mesh to prevent debris and combustible materials from accumulating.
- Move any flammable material away from wall exteriors mulch, flammable plants, leaves and needles, firewood piles – anything that can burn. Remove anything stored underneath decks or porches.



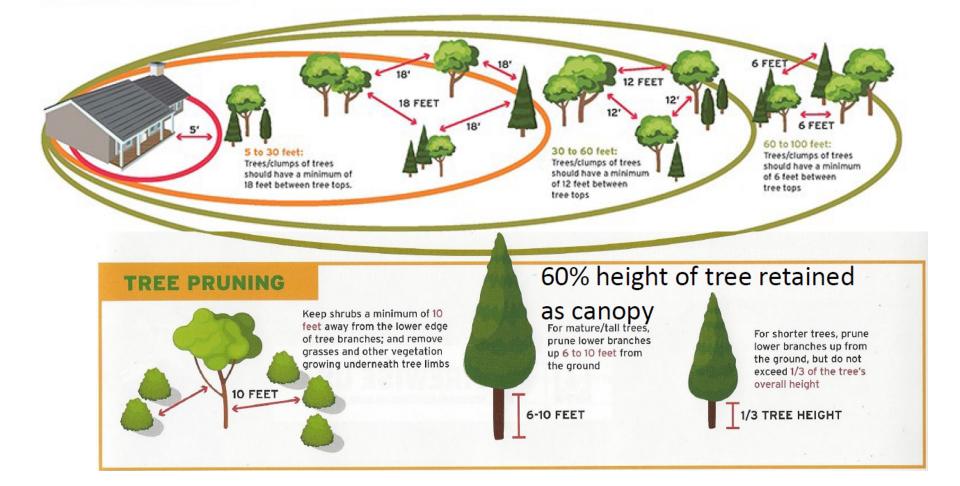
Home Ignition Zone





Intermediate & Extended Zones

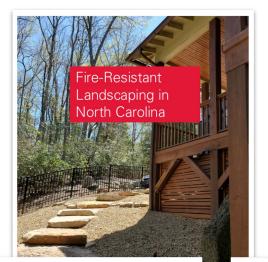
TREE SPACING

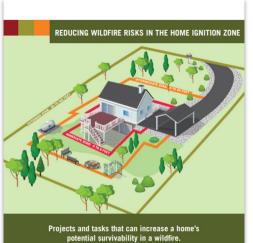




The national Firewise USA® recognition program provides a collaborative framework to help neighbors in a geographic area get organized, find direction, and take action to increase the ignition resistance of their homes and community and to reduce wildfire risks at the local level. Any community that meets a set of voluntary criteria on an annual basis and retains an "In Good Standing Status" may identify itself as being a Firewise® Site.

Resources to help with preparedness





t is not a question of if, but **when** the next major wildland fire will occur. As wildland fires continue to intensify, it is Agricultural properties that border non-urban areas often have unique challenges, making them more difficult to important to remember the specific considerations facing protect from a wildland fire. farmers and ranchers. Wildland fire is becoming a year-This Ready, Set. Go! Program Farmers & Ranchers brochure round reality. Many of the areas at greatest risk could be is designed to help you better understand wildland fire mitigation efforts to best protect your household, livestock your ranch or farm property. Defensible Space: Increases your safety and reduces risk of fire damage to your property Defensible space is the area around your home in which vegetation, debris, and other combustible fuels have been removed to slow the spread of fire to and from the Unmanaged vegetation between and home. The areas where human development meet or mix with natural vegetation is called the wildland-urban interface (WUI). Creating defensible space in these areas around homes, farms, or livestock

Wildland Fire Preparedness

structures increases the risk of wildland can reduce the risk of fire damage to structures and allow fire spreading. Pre-fire planning, fuel Homeowners should consider landscaping plans that management and sufficient fuel breaks include non-combustible materials or fire-resistant plant allow firefighters the space they need to and conduct regular maintenance to create and maintain defensible space around their home and outbuildings. fight wildland fires. Special consideration should be given to wind-drive

embers which can travel up to a mile or more ahead of the flame front. Consider areas where embers can land by looking over your home and outbuildings for cracks, openings, vents, and other areas where an ember could of defensible space due to the surrounding vegetation and topography that may be part of your property.

Agricultural assets such as feed, packing boxes, mulch,
and fuel supplies are particularly susceptible to flames and wind-driven embers. Livestock and equipment are also at

My Personal **Wildland Fire ACTION GUIDE**

ent today!





Retrofitting a Home for Wildfire Resistance Costs and Considerations

Spring 2024

Kimiko Barrett, Ph.D. Stephen L. Quarles, Ph.D.





INSTALLING THE RECOMMENDED MESH SCREENING AND ELIMINATING STORAGE IS CRITICAL TO REDUCING BUILDING IGNITIONS DURING A WILDFIRE.











Community Wildfire Mitigation Best Practices

Engagement Best Practices

- Making First Contact
- Seek opportunities for one-on-one interaction with landowners and property managers who have authority to reduce risk.

Community Wildfire Mitigation Best Practices - Engagement

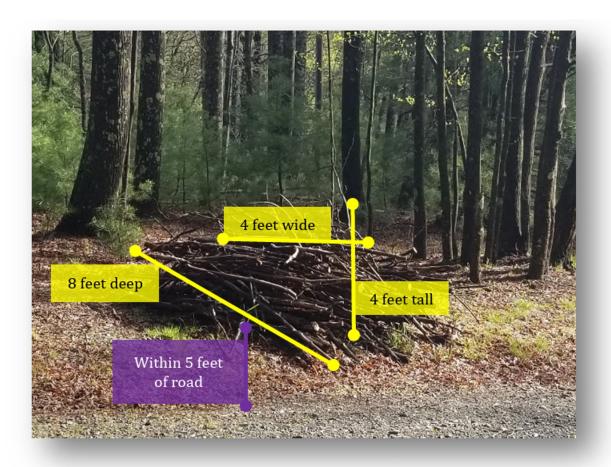
Passive Communication

- Second-Hand
 - Brochures, News Releases, Articles, Websites
- Not as effective at moving people to action, but helps point people to resources
- Good for a broader audience

Active Communication

- Face-to-Face Engagement
- Two-way Communication based on Questions and Answers
- Both parties are highly involved and both come away with a better understanding of the issues discussed
- Leads to Action

NC Fuels Removal Program



A program that reduces wildfire risk by removing roadside debris piled by residents in communities within North Carolina.

12 Sites Selected in 2025

Anatomy of a Fuels Reduction Program Pile. Photograph credit: Justin Query





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